

Version: v1  
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## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name : Alachlor solution  
Product Number : A109967  
Brand : aladdin  
CAS-No. : 15972-60-8(ethyl acetate)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : It is only for scientific research purposes, not for medicine, family standby medicine or other purposes.

#### 1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd  
Address : 36 Xinjinqiao Road, Shanghai  
Telephone : 400-620-6333  
Fax : no data available

#### 1.4 Emergency telephone number

Emergency Phone : 0532-83889090

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

#### 2.2 GHS Label elements, including precautionary statements



Warning

**Pictogram**  
**Signal word**  
**Hazard statement(s)**

H302	Harmful if swallowed
H313	May be harmful in contact with skin
H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H351	Suspected of causing cancer
H400	Very toxic to aquatic life

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**Precautionary statement(s)**

P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

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**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

Synonyms : 2-Chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide  
Formula : C<sub>14</sub>H<sub>20</sub>ClNO<sub>2</sub>  
Molecular weight : 269.77

**Component Classification Concentration**

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician

**In case of eye contact**

Flush eyes with water as a precaution

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

**4.2 Most important symptoms and effects, both acute and delayed**

no data available

**4.3 Indication of any immediate medical attention and special treatment needed**

no data available

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media**

no data available

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**5.2 Special hazards arising from the substance or mixture**

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Hydrogen chloride gas, nitrogen oxides (NOx) Hazardous decomposition products formed under fire conditions.- Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

**5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary

**5.4 Further information**

no data available

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.Avoid dust formation.Avoid breathing vapours, mist or gas.Ensure adequate ventilation.Evacuate personnel to safe areas.Avoid breathing dust.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so.Do not let product enter drains.Discharge into the environment must be avoided.

**6.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust.Sweep up and shovel.Keep in suitable, closed containers for disposal

**6.4 Reference to other sections**

no data available

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes.Avoid formation of dust and aerosols.Provide appropriate exhaust ventilation at places where dust is formed.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place.

**7.3 Specific end use(s)**

no data available

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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

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## 8.2 Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Eyeface protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

no data available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Appearance	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	100 °C (212 °F) at 0.03 hPa (0.02 mmHg)
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	0.0020 hPa (0.0015 mmHg) at 25 °C (77 °F)
l) Vapour density	no data available
m) Relative density	1.130 g/cm <sup>3</sup> at 25 °C (77 °F)
n) Water solubility	难溶于水，溶于乙醚、丙酮、苯、氯仿、乙醇。
o) Partition coefficient: n-octanol/water	log Pow: 3.5
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

### 9.2 Other safety information

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no data available

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#### SECTION 10: Stability and reactivity

##### 10.1 Reactivity

Stable under recommended storage conditions

##### 10.2 Chemical stability

no data available

##### 10.3 Possibility of hazardous reactions

no data available

##### 10.4 Conditions to avoid

Strong oxidizing agents

##### 10.5 Incompatible materials

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Hydrogen chloride gas, nitrogen oxides (NOx) Hazardous decomposition products formed under fire conditions.- Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas Other decomposition products - no data available

##### 10.6 Hazardous decomposition products

no data available

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#### SECTION 11: Toxicological information

##### 11.1 Information on toxicological effects

###### Acute toxicity

Skin - rabbit - Mild skin irritation

###### Skin corrosion/irritation

Eyes - rabbit - No eye irritation

###### Serious eye damage/eye irritation

no data available

###### Respiratory or skin sensitisation

Genotoxicity in vitro - mouse - lymphocyte Mutation in mammalian somatic cells.Genotoxicity in vitro - Human - lymphocyte Cytogenetic analysis Genotoxicity in vitro - Human - lymphocyte Sister chromatid exchange Genotoxicity in vitro - Hamster ovary Cytogenetic analysis Genotoxicity in vitro - Hamster - ovary Sister chromatid exchange Genotoxicity in vitro - Human - lymphocyte Micronucleus test Genotoxicity in vitro - Human - lymphocyte DNA damage Genotoxicity in vivo - rat - Intraperitoneal Cytogenetic analysis Genotoxicity in vivo - mouse - Oral Cytogenetic analysis Carcinogenicity Carcinogenicity - rat - Oral Tumorigenic:Neoplastic by RTECS criteria.Gastrointestinal:Tumors.Endocrine:Thyroid tumors.Carcinogenicity - mouse - Oral Tumorigenic:Carcinogenic by RTECS criteria.Lungs, Thorax, or Respiration:Tumors.Limited evidence of carcinogenicity in animal studies

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**Germ cell mutagenicity**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

May be harmful if inhaled. May cause respiratory tract irritation.

**Aspiration hazard**

<div>Toxicity to fish mortality NOEC - Oncorhynchus mykiss (rainbow trout) - 1.4 mg/l - 96.0 h</div> <div>LC50 - Lepomis macrochirus (Bluegill) - 2.5 mg/l - 96.0 h</div> <div>Toxicity to daphnia</div> <div>and other aquatic</div> <div>invertebrates</div> <div>EC50 - Daphnia magna (Water flea) - 13 mg/l - 48 h</div> <div>Toxicity to algae Growth inhibition LOEC - Pseudokirchneriella subcapitata - 0.008 mg/l - 96 h</div> <div>EC50 - Pseudokirchneriella subcapitata (green algae) - 0.011 mg/l - 72 h</div>

**Additional Information**

no data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**

no data available

**12.2 Persistence and degradability**

Bioaccumulation Pimephales promelas (fathead minnow) - 21 d Bioconcentration factor (BCF): 50.2

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life

**12.6 Other adverse effects**

no data available

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**SECTION 13:**

**13.1 Disposal considerations**

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**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product

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**SECTION 14: Transport information**

**DOT (US)**

UN number: no data available

Packing group: no data available

Class: no data available

Proper shipping name: no data available

Reportable Quantity(RQ): no data available Poison Inhalation Hazard: no data

Environmental Hazards: no data available

**IMDG**

UN number: no data available

Packing group: no data available

EMS-No: no data available

Proper shipping name: no data available

**IATA**

UN number: no data available

Packing group: no data available

Class: no data available

Proper shipping name: no data available

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**SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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**SECTION 16: Other information**

**Further information**

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